**Body at War Exam Revision**

1. Define the term disease.

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1. Explain the difference between infectious and non-infectious diseases and provide three examples of each.

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1. Explain how the following factors can lead to diseases being spread:

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1. Describe four ways in which the spread of disease can be prevented.

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1. Explain the difference between the terms plague, epidemic and pandemic.

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1. What is a pathogen?

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1. State whether the following statements in relation to pathogens are true or false:

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| **Statement** | **True or False** |
| * 1. Endoparasites live on their host |  |
| * 1. Fleas are an example of an ectoparasite |  |
| * 1. Prions are multicellular organisms |  |
| * 1. Prions cause problems with nervous tissue in the body |  |
| * 1. Viruses are DNA wrapped in protein |  |
| * 1. Viruses are able to reproduce without a host |  |
| * 1. Bacteria are non-cellular pathogens |  |
| * 1. All bacteria are harmful to the human body |  |
| * 1. Protozoans are single-celled and cause malaria |  |
| * 1. Fungi are always microscopic |  |
| * 1. A type of fungi causes tinea |  |

1. Fill in the table below relating to the three lines of defence.

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| **Structure/Substance** | **Specific/non-specific** | **Line of Defence** |
| Phagocytes engulf foreign cell |  |  |
| Antibodies released by B lymphocytes |  |  |
| Skin |  |  |
| Mucous |  |  |
| Inflammation |  |  |
| Saliva |  |  |
| Cilia |  |  |

1. The first line of defence includes physical and chemical barriers. List three of each of these and explain how they help to prevent entry of pathogens into the body.

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1. Describe how the second line of defence works.

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1. Explain how the third line of defence is specific.

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1. What is immunity? How does vaccination lead to immunity?

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1. Explain the difference between active and passive immunity.

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1. State whether the following are active or passive immunity and whether they are natural or artificial.

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|  | **Active or Passive** | **Natural or Artificial** |
| Body comes into contact with antigens and produces antibodies |  |  |
| Baby receives antibodies in breast milk |  |  |
| Antibodies produced after being injected with weakened pathogen (vaccination) |  |  |
| Antibodies injected into person |  |  |

1. Malaria is caused by a *vector*. Explain the term vector and explain how malaria is transmitted to humans.

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1. List three symptoms of malaria.

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1. Explain how malaria can be prevented.

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